

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/596, 746C
Source: IFW16
Date Processed by STIC: 09/30/2005

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 09/30/2005

PATENT APPLICATION: US/09/596,746C

TIME: 10:54:52

Input Set : A:\2631.1002-001.txt

Output Set: N:\CRF4\09302005\I596746C.raw

```

4 <110> APPLICANT: Raymond J. Dattwyler
5     Gerald Seinost
6     Daniel Dykhuizen
7     Benjamin J. Luft
8     Maria J.C. Gomes-Solecki
10 <120> TITLE OF INVENTION: Groups of Borrelia Burgdorferi and
11     Borrelia Afzelii That Cause Lyme Disease In Humans
14 <130> FILE REFERENCE: 2631.1002-001
16 <140> CURRENT APPLICATION NUMBER: 09/596,746C
17 <141> CURRENT FILING DATE: 2000-06-19
19 <150> PRIOR APPLICATION NUMBER: 60/140,042
20 <151> PRIOR FILING DATE: 1999-06-18
22 <160> NUMBER OF SEQ ID NOS: 2
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 192
28 <212> TYPE: PRT
29 <213> ORGANISM: borrelia burgdorferi
31 <400> SEQUENCE: 1
32 Cys Asn Asn Ser Gly Lys Asp Gly Asn Thr Ser Ala Asn Ser Ala Asp
33   1             5             10             15
34 Glu Ser Val Lys Gly Pro Asn Leu Thr Glu Ile Ser Lys Lys Ile Thr
35             20             25             30
36 Glu Ser Asn Ala Val Val Leu Ala Val Lys Glu Val Glu Thr Leu Leu
37             35             40             45
38 Thr Ser Ile Asp Glu Leu Ala Lys Ala Ile Gly Lys Lys Ile Lys Asn
39             50             55             60
40 Asp Val Ser Leu Asp Asn Glu Ala Asp His Asn Gly Ser Leu Ile Ser
41 65             70             75             80
42 Gly Ala Tyr Leu Ile Ser Thr Leu Ile Thr Lys Lys Ile Ser Ala Ile
43             85             90             95
44 Lys Asp Ser Gly Glu Leu Lys Ala Glu Ile Glu Lys Ala Lys Lys Cys
45             100            105            110
46 Ser Glu Glu Phe Thr Ala Lys Leu Lys Gly Glu His Thr Asp Leu Gly
47             115            120            125
48 Lys Glu Gly Val Thr Asp Asp Asn Ala Lys Lys Ala Ile Leu Lys Thr
49             130            135            140
50 Asn Asn Asp Lys Thr Lys Gly Ala Asp Glu Leu Glu Lys Leu Phe Glu
51 145            150            155            160
52 Ser Val Lys Asn Leu Ser Lys Ala Ala Lys Glu Met Leu Thr Asn Ser
53             165            170            175
54 Val Lys Glu Leu Thr Ser Pro Val Val Ala Glu Ser Pro Lys Lys Pro
55             180            185            190

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58 <210> SEQ ID NO: 2
59 <211> LENGTH: 191
60 <212> TYPE: PRT
61 <213> ORGANISM: borrelia burgdorferi
63 <400> SEQUENCE: 2
64 Asn Ser Gly Lys Gly Gly Asn Thr Ser Ala Asn Ser Ala Asp Glu Ser
65 1 5 10 15
66 Val Lys Gly Pro Asn Leu Thr Glu Ile Ser Lys Lys Ile Thr Glu Ser
67 20 25 30
68 Asn Ala Val Val Leu Ala Val Lys Glu Ile Glu Thr Leu Leu Ala Ser
69 35 40 45
70 Ile Asp Glu Leu Ala Thr Lys Ala Ile Gly Lys Lys Ile Gln Gln Asn
71 50 55 60
72 Gly Gly Leu Ala Val Glu Ala Gly His Asn Gly Thr Leu Leu Ala Gly
73 65 70 75 80
74 Ala Tyr Thr Ile Ser Lys Leu Ile Thr Gln Lys Leu Asp Gly Leu Lys
75 85 90 95
76 Asn Ser Glu Lys Leu Lys Glu Lys Ile Glu Asn Ala Lys Lys Cys Ser
77 100 105 110
78 Glu Asp Phe Thr Lys Lys Leu Glu Gly Glu His Ala Gln Leu Gly Ile
79 115 120 125
80 Glu Asn Val Thr Asp Glu Asn Ala Lys Lys Ala Ile Leu Ile Thr Asp
81 130 135 140
82 Ala Ala Lys Asp Lys Gly Ala Ala Glu Leu Glu Lys Leu Phe Lys Ala
83 145 150 155 160
84 Val Glu Asn Leu Ala Lys Ala Ala Lys Glu Met Leu Ala Asn Ser Val
85 165 170 175
86 Lys Glu Leu Thr Ser Pro Ile Val Ala Glu Ser Pro Lys Lys Pro
87 180 185 190

```

VERIFICATION SUMMARY

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